

CLAIMS

What is claimed is:

1. A donor element comprising a thermally imageable layer, wherein the thermally imageable layer comprises a crosslinkable binder and a colorant, and wherein the crosslinkable binder has a number
5 average molecular weight of about 1,500 to about 70,000.
2. A donor element of Claim 1 wherein the crosslinkable binder has a number average molecular weight of about 5,000 to about 10,000.
3. A donor element of Claim 1 wherein the crosslinkable binder
10 has a number average molecular weight of about 10,000 to about 70,000.
4. The donor element of Claim 1 wherein the crosslinkable binder and the colorant comprise aqueous dispersions
5. The donor element of Claim 1 wherein the crosslinkable binder is in solution form.
- 15 6. The donor element of Claim 1 further comprising a base element comprising a support and a heating layer.
7. The donor element of Claim 6 further comprising an ejection or subbing layer present on the support, between the support and the heating layer.
- 20 8. The donor element of Claim 1, 4 or 5 wherein the crosslinkable binder is a polymer prepared by emulsion polymerization or solution polymerization.
9. The donor element of Claim 8 wherein the low molecular weight crosslinkable binder is prepared from monomers selected from the group
25 consisting of acrylic acid and esters, methacrylic acid and esters, and styrene.
10. The donor element of Claim 1 wherein the colorant is a pigment.
11. The donor element of Claim 1 wherein the pigment is selected
30 from the group consisting of metal-containing phthalocyanines and halogenated derivatives, anthraquinones, pyrazolones, acetoacetyl monoazo, bisazo, and methine.
12. The donor element of Claim 1 further comprising a thermal amplification additive.
- 35 13. The donor element of Claim 12 wherein the thermal amplification additive is near Infrared dye.
14. A method for making a color image comprising:

- (1) imagewise exposing to laser radiation a laserable assemblage comprising:
- (A) a donor element comprising a thermally imageable layer,
- 5 and
- (B) a receiver element comprising:
- (a) a receiver support; and
- (b) an image receiving layer provided on the surface of the receiver support; and wherein the thermally imageable layer comprises a crosslinkable binder having a number average molecular weight of about 1,500 to about 70,000; whereby the exposed areas of the thermally imageable layer are transferred to the receiver element to form a colorant-containing image on the image receiving layer; and
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- (2) separating the donor element (A) from the receiver element (B), thereby revealing the colorant-containing image on the image receiving layer of the receiver element.
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15. The method of Claim 14 wherein the crosslinkable binder has a number average molecular weight of about 5,000 to about 10,000.
16. The method of Claim 14 wherein the crosslinkable binder has a number average molecular weight of about 10,000 to about 70,000.
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17. The method of Claim 14 further comprising:
- (3) applying the colorant-containing image on the image receiving layer of the receiver element to a permanent substrate, and removing the receiver support to transfer the colorant-containing image on the image receiving layer to the permanent substrate.
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18. The method of Claim 17 wherein the applying is by lamination.
19. The method of Claim 18 wherein the receiver support is glass.
20. The method of Claim 17 wherein the permanent substrate is glass.
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21. The method of Claim 20 wherein the glass is treated with adhesives or siloxane coupling agents.
22. The method of Claim 17 wherein the permanent substrate is rigid plastic,

23. The method of Claim 22 wherein the rigid plastic is polycarbonate.

24. The method of Claim 14 wherein the image receiving layer comprises a crosslinkable binder having a number average molecular weight of about 1,500 to about 70,000

25. The method of Claim 17 further comprising:

(4) applying a planarizing film to the image receiving layer, and removing the support, wherein the planarizing film comprises a support and a planarizing layer.

26. The method of Claim 25 wherein the applying is by lamination.

27. The method of Claim 25 wherein image receiving layer comprises a crosslinkable binder having a number average molecular weight of about 1,500 to about 70,000.

28. The method of Claim 25 wherein planarizing layer comprises a crosslinkable binder having a weight average molecular weight of about 20,000 to about 110,000.

29. The method of Claim 28 wherein image receiving layer comprises a crosslinkable binder having a number average molecular weight of about 1,500 to about 70,000.

30. A method for making a color image comprising:

(1) imagewise exposing to laser radiation a laserable assemblage comprising:

(A) a donor element having a thermally imageable layer comprising a crosslinkable binder having a number average molecular weight of about 1,500 to about 70,000, and

(C) a permanent substrate; whereby the exposed areas of the thermally imageable layer are transferred to the permanent substrate to form a colorant-containing image on the permanent substrate; and

(2) separating the donor element (A) from the permanent substrate (C), thereby revealing the colorant-containing image on the permanent substrate.

31. The method of Claim 30 wherein the permanent substrate is glass.

32. The method of Claim 31 wherein the glass is treated.

33. The method of Claim 31 wherein the glass supports a pre-formed black mask pattern.

34. The method of Claim 33 wherein the glass that supports a pre-formed black mask pattern is treated.

35. The method of Claim 34 wherein the treatment comprises an image-receiving layer.

5 36. The method of Claim 32 wherein the treatment comprises an image receiving layer.

37. The method of Claim 30 further comprising:

(3) applying a planarizing film comprising a planarizing support and a planarizing layer to the colorant-containing image on the permanent substrate, and removing the planarizing support.

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38. The method of Claim 37 wherein the applying is by lamination.

39. The method of Claim 37 wherein the image receiving layer, the planarizing layer, or both comprise a crosslinkable binder having a number average molecular weight of about 1,500 to about 70,000.

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40. A liquid crystal display comprising a color filter, wherein the color filter is prepared using a thermal imaging process, and a donor element comprising a thermally imageable layer having a crosslinkable binder and a colorant, wherein the crosslinkable binder has a number average molecular weight of about 1,500 to about 70,000.

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41. The liquid crystal display of Claim 40 wherein the crosslinkable binder has a number average molecular weight of about 5,000 to about 10,000.

42. The liquid crystal display of Claim 40 wherein the crosslinkable binder has a number average molecular weight of about 10,000 to about 70,000.

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43. The liquid crystal display of Claim 40 comprising a color filter having a glass substrate.

44. The liquid crystal display of Claim 43 wherein the glass substrate has a preformed black mask pattern thereon.

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45. The liquid crystal display of Claim 44 comprising a color filter having at least three color images thereon.

46. The liquid crystal display of Claim 45 wherein the color images are red, blue and green.

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